

20030310.qrp v02_n855.qrl.20030310

Date: Mon, 10 Mar 2003 19:03:05 EST
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 2855

QRP-L Digest 2855

Topics covered in this issue include:

- 1) [147298] Re: part storage
by "Jim Johnson" <radio5@techie.com>
- 2) [147299] Re: %20hw-8%20is%20here!
by Fghester@aol.com
- 3) [147300] Fw: [Q] NW30 vs OHR100a(30) (a bit long)
by "=?iso-8859-1?B?XCivYLCuuLgufj5NaWtlPH4uuLgut7SvXCk=?"
<n9ivo@attbi.com>
- 4) [147301] Re: fixing up TS120S
by "Ray Goff" <radioham@gmx.co.uk>
- 5) [147302] Re: Tiny Trove II B: The Sequel
by "Brad Hernlem" <alihernlem@hotmail.com>
- 6) [147303] Re: SWL PSK-31 antennas question.
by "Karl F. Larsen" <k5di@zianet.com>
- 7) [147304] Help finding NorCal 20 kit
by "Jerry Parker" <qrprradio@charter.net>
- 8) [147305] Re: A K2 Borrower Speaks
by "Dave Sjolín" <sjolin@swbell.net>
- 9) [147306] N6WG EQP Summary
by "Bob Tellefsen" <n6wg@earthlink.net>
- 10) [147307] Service manual ?
by Rick McKee <kc8aon@juno.com>
- 11) [147308] Re: hw-8 is here!
by Rick McKee <kc8aon@juno.com>
- 12) [147309] Re: A K2 Borrower Speaks
by John Harper AE5X <ae5x@qsl.net>
- 13) [147310] Re: Knock, knock ... Nobody's Home!
by Bob Nielsen <nielsen@oz.net>
- 14) [147311] i goofed :(
by "George Osier" <gosier@twcny.rr.com>
- 15) [147312] Re: A K2 Borrower Speaks
by "Lee Mairs" <lmairs@direcway.com>
- 16) [147313] Re: Need small QRP antenna for 15M
by "David E. Gilson" <kd3em@velocity.net>
- 17) [147314] NJQRP meeting notes & pics
by "George Heron N2APB" <n2apb@erols.com>
- 18) [147315] VB5 source code for DSWTUN03 and DSWTUN95 now available...
by "Bill, N4QA" <n4qa@hotmail.com>

- 19) [147316] Fwd: 13th OQRPC: where from?
by dl6aaf@t-online.de (Uwe Meier)
- 20) [147317] 20M QRM today?
by "P. Ermisch" <ermisch@usa.net>
- 21) [147318] Re: A K2 Borrower Speaks
by <mm1esg@compuserve.de>
- 22) [147319] co0o?
by "Rod N0RC" <rod@n0rc.us>
- 23) [147320] Atlanticon Speaker - Jon Iza, EA2SN
by "George Heron N2APB" <n2apb@erols.com>
- 24) [147321] Best Simple Introduction Book
by "Mike Duke, K5XU" <k5xu@jam.rr.com>
- 25) [147322] Millen grid dipper
by "Joe W2KJ" <w2kj@bellsouth.net>
- 26) [147323] ARRL RF Design Book - THANKS!
by "Brian P. Mileschosky" <n5zgt@swcp.com>
- 27) [147324] Sniffer Kit price increase
by "George Heron N2APB" <n2apb@erols.com>
- 28) [147325] Schematic Software
by Nelson Winter <thenels@go.com>
- 29) [147326] Re: QRP Digital Wattmeter
by Nelson Winter <thenels@go.com>
- 30) [147327] hw-8/zm-2 progress..
by sergio <sergio@village-buzz.com>
- 31) [147328] i'll take a manhattan.. make it a double!
by sergio <sergio@village-buzz.com>
- 32) [147329] NJQRP Sniffer Price Increase
by David Porter <aa3ur@comcast.net>
- 33) [147330] Manhattan vs. Ugly Construction
by "w8diz" <w8diz@fpqrp.com>
- 34) [147331] Re: co0o?
by "Juan Ferrari" <puntrad@usa.net>
- 35) [147332] Re: Schematic Software
by David Hinerman <WD8CIV@worldnet.att.net>
- 36) [147333] Re: Schematic Software
by "Leon Heller" <leon_heller@hotmail.com>
- 37) [147334] WTB coaxial power connectors
by <n2go@arrl.net>
- 38) [147335] RE: Argonaut 515 for SALE
by "Burl A. Keeton" <n5duq@juno.com>
- 39) [147336] RCA Jack in RF applications
by wkhibbert@juno.com
- 40) [147337] Re: Schematic Software
by "Garey Barrell" <k4oah@mindspring.com>
- 41) [147338] Results W0SOC in EQP
by Bob Patten <n4bp@bellsouth.net>
- 42) [147339] Mutual Inductance Coefficient and Toroid Impenace
by "William Phinizy" <k6whp@verizon.net>

- 43) [147340] Re: Mutual Inductance Coefficient and Toroid Impenace
by "Ian Wilson" <ianmwilson@earthlink.net>
- 44) [147341] Homebrewing a headset
by Alex <kr1st@amsat.org>
- 45) [147342] Re: Argo V Numbers added to RX Comparison Tables
by Eric Swartz WA6HHQ - Elecraft <eric@elecraft.com>
- 46) [147343] Re: Mutual Inductance Coefficient and Toroid Impenace
by "Noyce, Bill" <william.noyce@hp.com>
- 47) [147344] Re: Mutual Inductance Coefficient and Toroid Impenace
by <nkennedy@tcainternet.com>
- 48) [147345] Data modes in NorCal-20
by "Oleg V. Borodin" <master72@lipetsk.ru>
- 49) [147346] Re: Argo V Numbers added to RX Comparison Tables
by Ed Lawson <k1vp@grizzly.com>
- 50) [147347] Re: N6WG EQP Summary
by "Stephen King" <frstephenk@stfrancishigh.org>
- 51) [147348] hw-8/zm-2 progress..
by "KL7FDQ, Wayne Leman" <KL7FDQ@rangeweb.net>
- 52) [147349] FS: DDS package
by "Charles W3KC" <w3kc@starpower.net>
- 53) [147350] Re: A K2 Borrower Speaks
by "Bob Schreibmaier" <k3ph@ptd.net>
- 54) [147351] Re: WTB coaxial power connectors
by <n2go@arrl.net>
- 55) [147352] [CONTEST] NJQRP Homebrewer Sprint Announcement
by "Ken Newman" <N2CQ@Dandy.Net>
- 56) [147353] OT: Fritzel Antenna Source ?
by "Michael Melland" <w9wis@charter.net>
- 57) [147354] Fw: Re: Service manual ?
by William R Colbert <w5xe@juno.com>
- 58) [147355] Re: Schematic Software
by "E. Roswell" <eroswell@monmouth.com>

Date: Sun, 09 Mar 2003 16:56:04 -0500
From: "Jim Johnson" <radio5@techie.com>
To: qrp-l@Lehigh.EDU
Subject: [147298] Re: part storage
Message-ID: <20030309215604.50700.qmail@mail.com>
Content-Type: text/plain; charset="iso-8859-1"
Content-Disposition: inline
Content-Transfer-Encoding: 7bit
MIME-Version: 1.0

Great idea on the parts storage, I have one. But I was thinking about having a lot of Altoids boxes arranged in a column for certain kinds of parts. The ones especially sensitive to static. I use coin envelopes for the resistors, these are

1 x 2 inch I think. Neither of these are transparent, but I label them.

At work we had to use the black colored boxes that passed the static test.

Would be glad to know how others handle the parts storage and organization. My friend had a box that had the full range of resistors in a very small space. It was about 6 inches wide by 4 inches high by 3 inches deep. It was put out by a resistor company. I'd like to get my hands on one of those. It could hold 1000 resistors or more.

Sent by ePrompter, the premier email notification software.
Free download at <http://www.ePrompter.com>.

--

Sign-up for your own FREE Personalized E-mail at Mail.com
<http://www.mail.com/?sr=signup>

Date: Sun, 9 Mar 2003 17:02:32 EST
From: Fghester@aol.com
To: qrp-1@lehigh.edu
Subject: [147299] Re:%20hw-8%20is%20here!
Message-ID: <145.c80e843.2b9d13f8@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Yep.. adapter sold at Radio Shack Stores. Heath Engineers loved that RCA connector.. I've always wondered why..

Date: Sun, 9 Mar 2003 16:06:22 -0600
From: "=?iso-8859-1?B?XCivYLcuuLgufj5NaWt1PH4uuLgut7SvXCk=?=" <n9ivo@attbi.com>
To: <qrp-1@lehigh.edu>
Subject: [147300] Fw: [Q] NW30 vs OHR100a(30) (a bit long)
Message-ID: <001501c2e688\$1eb256a0\$0100a8c0@cb528392a>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Ken. I built the Emtech NW a while back and posted a couple reports as I progressed. It was my first transceiver kit, so I was pretty apprehensive.

I can recommend that particular kit because as you build each circuit, you test it before continuing. In this way, any flub ups are corrected before the kit is completed and the problems are much harder to find/correct.

I then bought the OHR for 20 meters, but have yet to build it. With that kit, you just fill the board and then give it the smoke test.

Here are my original posts as I built the Emtech:

From: M. Pender

Date: Sat Apr 08 2000

Hi all.

I guess I should start by mentioning that I'm pretty new to qrp and extremely new at kit building.

After completing the OHR WM-2 qrp wattmeter first, then the Emtech ZM-2 qrp antenna tuner second, I figured my feet were wet enough to have a go at the Emtech NW-40 transceiver.

I had a request (more like a dare) by John, N9UKX to post status reports here on the list as I assembled and tested this kit. If interest is shown, I'll continue to post updates as I progress. If this will just be repeating what has been posted here in the past, let me know and I'll just finish the rig without the posts. I'm quite sure that before the rig is complete, I'll run into some snags and need some guidance.

Let me start by mentioning that Scott and Charity at Emtech are top notch to deal with. I'm sure that I'll be dealing with them again in the future, and I would highly recommend Emtech for QRP kits.

On to the kit....

I started by winding the toroids. On page one, the instructions say that on L1, there is a tap 4 turns from the starting point. The picture shows what looks like a tap after the fifth turn. This threw me until I saw the much better detail of this toroid on page seven. That one clearly shows the tap between the fourth and fifth wraps. Whew..... time to melt some solder.

I installed the components for the VFO. All was fine till I got down to the last component. CV, a 33pf capacitor. I was out of parts. Hmmm. Well, it turns out that I had used the 33pf cap in place of the 330 cap at C41. C41 says to look up the value on the bands table. On the bands table, C41 is listed simply as "330", so,,,,,, OF COURSE I installed the cap marked 330 in C41, which left me short the 33pf cap (marked 330) for CV!!

Reading ahead in the trouble shooting section, mention is made of the ambiguity of markings on the caps. 33pf is marked 330, 330pf is marked 331. This discrepancy is stated on page 2, and again in trouble shooting. I don't know why this wasn't simply stated right in the bands table to begin with to save confusion. Adding to the confusion was that the 330pf cap wasn't in the vfo bag, it was in the 40m band bag. A mention of this on page seven sure would have been helpful. I'll have to really make sure of the right cap markings from now on!!!

Mounting of the main tuning Cap, C35, calls for 1/4" 4-40 screws. Well, only 3/8" ones were in the hardware bag, so I cut a couple from my junk drawer down to 1/4". Use of 3/8" here pushes the screw into the fins of the Cap. That's not good.

On to testing the VFO circuit....

I applied power with the 22 ohm resistor as a current limiter, placed the board next to the ZM-2 tuner which is hooked up to my Kenwood 440 hf rig and tuned between 4.8-5 mhz. (the listed tuning range for 40 meters.) Nothing. Hmmm. A little tweaking on the C36 trimmer brought it in to 4.925mhz. Close enough to center for now.

Well, that's it for now. The keying circuit is next. I'm happy as can be so far. I've learned to take my time and really watch component values and markings!! Maybe I'm being over zealous being a new builder of kits, but that little circuit was a triumph for me!

It'll be a while before I see a K2 on my bench.

72... Mike, N9IV0

From: M. Pender

Date: Thu Apr 20 2000

Hello again. I've been moving along on the NW, albeit a little slowly. HEY, like most of you, I'm spread a little thin most of the time, so work on the kit as time allows.

On the last posting, I had just started the kit. I had the vfo circuit completed and learned a little about reading cap values and parts in the kit.

Since the last posting, I've completed the keying, rit, audio, and receiver circuits.

The keying, rit, and audio circuits went fine and worked right off the board.

The receiver went fine but for a couple of snags. R1,4, and 5 were to be 100 ohm. There were three 100k in their place. Nothing a quick trip to Radio Shack couldn't remedy.

I finished stuffing the board and wiring up the variable bandwidth pot.

I checked my soldering, crossed my fingers, and applied power. There's noise, and no smoke. (that's good) I hook up an antenna and go through the alignment. I never was able to get nice nulls

and peaks as stated in the manual. (Scott at Emtech says some of the NWS are more subtle in this area and harder to notice a definite peak.) I did null out the unwanted sideband and am getting excellent performance from the receiver.

I noticed while aligning that the audio seemed to jump from high to low and it also had a crackling sound when changing between the two. Once I had it aligned, it seemed to settle down, so I tuned and played for quite a while. Then Crackle, Crackle , dim audio, Crackle, near silence. No more signals..... Checked some voltages while down. Pins 1 and 2 on U3 are low. Hmmm. I email Scott at Emtech. He replied a couple days later with ideas on moving components around, checking the I.F. cans and looking for shorts.

Power down, wait, power up. Signals for a few seconds, then silence again. Crackle, working fine. Stays that way for a day or so. Then intermittently on and off. I start checking voltages again. The manual mentions suspecting Q5 since a short will key the rig. I hook up the DVM to C of Q5. 0 volts. Ok... wait... Crackle... crackle.... 2v.... 3v....5v...8v... no audio... crackle... crackle... Check pin 3 of U7, same voltage jumping around. Voltage jumping around and crackling audio continue... POOF,,, audio comes back, and voltage jumps back to zero..... This cycle repeats every time the audio starts acting up.

I now suspect the Transistor 2n4125 at Q5 to be intermittently leaky. Remove Q5, power up rig. The rig works perfectly for two days nonstop. During this time, I had lots of fun tuning around and listening with the rig. This receiver is a pleasure to use, and the filter works very well.

I went to B&W electronics in Berwyn, Il. and got the replacement. They didn't have the 2n4125, so got the 2n3906 as a replacement, put it in, and it's been working fine now. The receiver rivals my Kenwood TS440s, and I've got a lot more invested in the Kenwood rig and crystal filters that it has. (Heck, I paid almost as much for EACH crystal filter for the Kenwood as I did for the complete Emtech kit.) Sheesh, I think I'll build all my rigs from now on. You sure get a lot more bang for the buck!!!

I must say, an intermittent component like that can really throw a new builder. It was very frustrating re-soldering every pad on the board, wiggling components, swapping IC's and checking voltages until I finally caught the leakage on that transistor. Problems like this are exactly what force us to learn how circuits work. This fine education took an extra week out of building the kit, but the darn thing was hard to track down. Now that I've gotten this far, I'm confident the rig will finish up just fine. After playing with the thing for a week on the desk hooked up to just a bunch of clip leads, having a nice rig in a case will seem boring!!!

Now come the meter, transmitter, and audio filter circuits..... That'll be part 3. Until next time.... Mike, N9IVO

Mike Pender Chicago, Illinois N9IV0

The rest of the rig went together with no problems. I never did post here about finishing those last little circuits. Anyway, the Emtech is a really nice build and a pleasure to use.

Have fun... Mike N9IV0

e-mail: n9ivo at attbi dot com
web: http://home.attbi.com/~n9ivo

Date: Sun, 9 Mar 2003 22:10:10 -0000
From: "Ray Goff" <radioham@gmx.co.uk>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [147301] Re: fixing up TS120S
Message-ID: <001201c2e688\$b125a410\$a9bc6751@starfishrcg>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Joe,

www.mods.dk has the full service manual available in PDF format.

Try this link
<http://80.162.141.166/mods.dk/download.php?radio=kenwood&file=TS-120S_Service_Manual_R1.pdf>

If that fails go to the main web site and click on Kenwood at the top of the screen. Then click on Manuals at the top left of the screen and scroll down until you find the TS-120 service manual.

73

Ray, G4F0N

Date: Sun, 09 Mar 2003 22:12:39 +0000
From: "Brad Hernlem" <alihernlem@hotmail.com>
To: qrp-l@lehigh.edu
Subject: [147302] Re: Tiny Trove II B: The Sequel
Message-ID: <F1475XW0UYEip8P76xL0002b4b6@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

In case anyone wanted to get in on this and thought that it was too late, I still have parts left and am not fully subscribed.

Regards,

Brad KG6IOE

From: Brad Hernlem (alihernlem@hotmail.com)
Date: Fri Mar 07 2003 - 10:00:10 EST

Folks,

Well, since the "Tiny Trove II" went over so well, I've come up with another \$1 assortment of SMT parts for your consideration. This assortment is mainly a range of resistors, mostly 5% with a few 1%, in sizes from 0603 to 1206 plus some Panasonic NPN transistors.

RESISTORS (QTY=20 each):

1) 10 ohm 1% 1206 Dale CRCW1206
2) 110 ohm 0805 KOA RM73B2A111JT
3) 390 ohm 5% 0603 Matsushita ERJ-3GEYJ391
4) 470 ohm 5% 0805 Dale CRCW0805
5) 680 ohm 5% 1206 Matsushita ERJ-8GEYJ681
6) 1K ohm 1% 0805 Cal-Chip RM10F1001C1
7) 6.2Kohm 5% 0805 Rohm MCR10FZHMJW622
8) 10K ohm 1206 ? R1206103JT2
9) 200Kohm 0603 KOA RM73B1J204JT

TRANSISTORS (QTY=15 each):

10) 2SD601A-Q NPN Panasonic T0-236 (SOT-23)

That is 195 pieces total and, again, the terms are \$1 plus self-addressed, stamped envelope. But I have a limited number of parts assortments so WRITE FIRST to my

e-mail address (alihernlem@hotmail.com) to reserve a parcel BEFORE sending any payment.

I pack the cut tapes sandwiched between card stock and wrapped by a cover sheet. Resistor values are written on the back of the tapes for your convenience.

NOTE on the SASE:

If using standard envelopes (either the smaller 3 5/8" X 6 1/2" or larger #10), the total weight will not exceed 1 ounce and I am informed by the USPS that these parts will be sufficiently flat and flexible not to incur the "machinability" surcharge (i.e. \$0.37 postage is adequate in the U.S.). If you send any other type envelope, please ensure that sufficient postage is affixed (weight of packed parts excluding envelope is 0.5 ounce).

Best Regards,

Brad KG6IOE
alihernlem@hotmail.com

MSN 8 helps eliminate e-mail viruses. Get 2 months FREE*.
<http://join.msn.com/?page=features/virus>

Date: Sun, 9 Mar 2003 15:33:18 -0700 (MST)
From: "Karl F. Larsen" <k5di@zianet.com>
To: Steve Yates - AA5TB <aa5tb@arrl.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [147303] Re: SWL PSK-31 antennas question.
Message-ID: <Pine.LNX.4.44.0303091527470.2476-100000@bucket.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Steve, the problem here in Las Cruces, NM is that the people in the new Emergency Services are all tied up with the County and are using their non-ham frequencies. I think a QRP HF net is cool and will work. PSK-31 is a great way to send text messages. But the guys here are all tied up with RACES and such things and have just a General Ticket but expect to have some frequencies allocated JUST to them. A bunch of work I think to no avail.

On Sun, 9 Mar 2003, Steve Yates - AA5TB wrote:

> I guess everyone has there own ideas but I too have thought of the PSK31
> using 80m NVIS for local region emergency communications long before Sep.
> 11th. As far as handling text files, where's the problem? I have "canned"
> messages setup in text files that I use all of the time on DigiPan. I see no
> reason why any message couldn't be put in text form and sent this way. I
> agree that there may be far better means for your local area but I've seen
> many situations where trying to find enough repeaters to cover a wide area
> was a problem. The one thing that the idea has going for it, at least in
> Rodney's example, is that it keeps with the KISS principle. Its the NVIS
> idea that I like more then the PSK31 but I've used the Warbler before and it
> works very nicely. I've seen the beauty of it. A Warbler tied to a
> notebook computer and your all set. No expensive radio to buy.
>
> Let's get real however. The biggest obstacle for 80m NVIS PSK31 public
> service communications is that most folks involved in public service work
> (my experience) don't have the license required to operate there.
>
> 73,
> Steve Yates - AA5TB
>
>
> <http://www.qsl.net/aa5tb/>
>
>
>
>
>
>
>
--

- Karl Larsen k5di Las Cruces,NM Az ScQRPions -

Date: Sun, 9 Mar 2003 14:31:00 -0800
From: "Jerry Parker" <qrpadio@charter.net>
To: <qrp-L@lehigh.edu>
Subject: [147304] Help finding NorCal 20 kit
Message-ID: <006501c2e68b\$903302e0\$6401a8c0@parkerhr41z15w>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Anyone have an unbuilt kit out there that would be willing to help Dave out???

Email him at: dave@bridle.f9.co.uk

72,

Jerry...WA6OWR...k

----- Original Message -----

From: bridle

To: jparker@fix.net

Sent: Sunday, March 09, 2003 9:03 AM

Subject: Ref the norcal 20.

i'm in England, the UK, and how do I go about getting a kit for the Norcal 20?.

do I send you the money in dollars, or what?.

Can you help?.

Many thanks,

Dave Bridle.

Date: Sun, 9 Mar 2003 16:40:17 -0600

From: "Dave Sjolin" <sjolin@swbell.net>

To: <ae5x@qsl.net>,

"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: [147305] Re: A K2 Borrower Speaks

Message-ID: <137201c2e68c\$dd2255a0\$78d1fea9@DaveSjolin>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

----- Original Message -----

From: "John Harper AE5X" <ae5x@qsl.net>

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Sent: Sunday, March 09, 2003 1:02 PM

Subject: A K2 Borrower Speaks

> 1. A lot of DXpeditions operate the pileups split. On the K2, there is a
> noticeable lag when switching from A to B VFO. This lag is only a fraction
> of a second and therefore may seem insignificant in a discussion, but in

> actual practice the lag can equate to some (perhaps most) of a call sign when
> the CW speed is up around 35 wpm, typical in a pileup. A lot of back and
> forth A to B switching of the VFOs is often necessary as the DX station is
> chased and finally (hopefully) worked - as the DX answers a station, I
> switch to the other (my transmitting) VFO to tune to the answered station's
> frequency and then back to my receive VFO to be ready to call the DX the
> instant he indicates his completion of the previous contact. During this
> round trip VFO A to B and back to A operation, a lot of time is spent, due
> to the lag. As I said, in conversation this may seem like splitting hairs,
> but in a 35 wpm CW pileup, this lag becomes irritating.

John, are you saying that you can't operate full QSK in split operation? At speeds of 35 wpm I can't understand what kind of delay you could be seeing with QSK with split that would cause a problem. I know I don't see any on my TS-940S. If you are having a noticeable delay when using semi-breakin, then the obvious solution is to set the menu to full breakin and the delay should disappear.

73 de Dave, N0IT

Date: Sun, 9 Mar 2003 14:58:44 -0800
From: "Bob Tellefsen" <n6wg@earthlink.net>
To: <qrp-1@lehigh.edu>
Subject: [147306] N6WG EQP Summary
Message-ID: <MABBJOEABOILMKCJCLFCOEANEDAA.n6wg@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

N6WG EQP SUMMARY

	QSOS	FT	S/P/C
10M	0	0	0
15M	17	1	12
20M	45	3	22
40M	38	4	18
80M	0	0	0
160M	5	1	2

Total QSOS 105 x 3 = 315 QSO Pts
Bonus Pts 6 FTs x 5 = 30
Total 345 Pts

Had a great time after a late start.
Sure is nice to hear a band busy, even
if it takes a "contest" to do it.
Enjoyed seeing all the familiar calls
on the air.
Looking forward to the next running.
How about a Summer and Winter session?
73, Bob N6WG
K2 s/n 12

Date: Sun, 9 Mar 2003 17:52:46 -0500
From: Rick McKee <kc8aon@juno.com>
To: qrp-l@Lehigh.EDU, fpqrp-l@mpna.com
Subject: [147307] Service manual ?
Message-ID: <20030309.175320.8950.4.kc8aon@juno.com>

Anyone have a service manual for a Yaesu FT-7 ? Would like to get a copy
of one, I need it to help get the VFO calibrated. I've got it fairly
close, but the dial set pot has to be adjust to its lowest position to
"get close" and just doesn't quite get there before running out of range.
Would like to get it where the dial is pretty much right on with the
dial set pot in or near it's center position.

72/73 de: Rick McKee, KC8AON <> Willow Wood, Ohio - Grid: EM88rl
SW 40+, HW-8, Yaesu FT-7, Homebrew 6V6 tube TX & Surplus GRC 109 RX
Power is for punks ! QRP is for the confident !
QRP-L #2112, FPqrp #33, AR QRP #269
"A clear conscience is most likely the result of a poor memory"

Sign Up for Juno Platinum Internet Access Today
Only \$9.95 per month!
Visit www.juno.com

Date: Sun, 9 Mar 2003 17:42:36 -0500
From: Rick McKee <kc8aon@juno.com>
To: kw3u@warwick.net, qrp-l@Lehigh.EDU
Subject: [147308] Re: hw-8 is here!
Message-ID: <20030309.175320.8950.2.kc8aon@juno.com>

Why not just replace that elcheapo RCA jack with something better like an
SO-239 or better yet a BNC jack ? That's what I did to mine ! I also

changed the audio board to one with an LM386 to drive a back panel mounted internal speaker, added a reflected power sensor that uses the existing meter in the HW-8 and is selected by a mini toggle switch as to forward or reflected power. The meter also operates as a relative reading S meter in receive and I changed the final output transistor to one that does 4 watts out and added a drive level control to the back panel for 0 to 4 watts adjustable output. I have buit an audio filter for it too, but haven't installed it yet. The HW-8 is a great little rig, and it also has a lot of room for improvements, and the space to add them too !

72/73 de: Rick McKee, KC8AON <> Willow Wood, Ohio - Grid: EM88rl
SW 40+, HW-8, Yaesu FT-7, Homebrew 6V6 tube TX & Surplus GRC 109 RX
Power is for punks ! QRP is for the confident !
QRP-L #2112, FPqrp #33, AR QRP #269
"A clear conscience is most likely the result of a poor memory"

On Sun, 9 Mar 2003 11:28:44 -0800 "Jim and Jade" <kw3u@warwick.net>
writes:

>Yes, that is the adaptor I also use with my HW-8 and it works fine, I
>have
>two
>of them I like them so much. Sergio remember the signal you hear is in
>two
>places
>on rcv so tune the upper one or you may not connect with everyone,
>especially
>during contests when moving up and down band and forgetting. some nice
>mods, mine came with a variable bandwidth which is cool.
>gl Jim kw3u
>

>----- Original Message -----

>From: "Winston F. Jones" <winjones@ix.netcom.com>
>To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
>Sent: Saturday, March 08, 2003 4:17 PM
>Subject: Re: hw-8 is here!

>
>

>> You can get an adaptor which accepts a PL-259 coax plug and provides
>an
>RCA
>> phono plug for the jack.
>> 73, Winston K4CWQ
>>

>> ----- Original Message -----

>> From: "sergio" <sergio@village-buzz.com>
>> To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
>> Sent: Saturday, March 08, 2003 17:59 PM

>> Subject: hw-8 is here!
>>
>>
>> >
>> > i got it, along with the power supply.. this morning!
>> >
>> > i only had time to unpack it.. but i notices that it has an rca
>jack for
>> > antenna connect..
>> >
>> > i think i saw something about that somewhere... i am gonna go take
>a
>look
>> > on that..
>> >
>> > i have that hw-8 book coming in, too..
>> >
>> > as soon as i figure that antenna thing out.. this thing is on the
>air!
>> >
>> > thanks for everyone's input on this!
>> >
>> >
>> > ___
>> > peace,
>> > sergio
>> > www.village-buzz.com - "the village buzz"
>> > www.mp3.com/village_buzz - "the rock n roll, baby!"
>> > www.coffee-black.com - rock photo!
>> > phone ... 419 606 0557
>> > to subscribe to The Village Buzz, send a blank email to:
>> > VB-Announce-subscribe@yahoogroups.com
>> > www.amazon.com/o/registry/3L7DM7FMR50QU <- buy me some swag!
>> >
>> >
>>
>
>

Sign Up for Juno Platinum Internet Access Today
Only \$9.95 per month!
Visit www.juno.com

Date: Sun, 09 Mar 2003 18:04:39 -0500

From: John Harper AE5X <ae5x@qsl.net>
To: Dave Sjolín <sjolin@swbell.net>,
Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [147309] Re: A K2 Borrower Speaks
Message-ID: <000901c2e690\$48ece900\$6401a8c0@Home>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

Dave, I'm not talking about QSK at all but rather the lag when switching between VFOs (hitting the A/B button). The QSK on the K2 is great.

John Harper AE5X
Outdoor QRP & 80-Meter DXing: <http://www.ae5x.com>

----- Original Message -----

From: "Dave Sjolín" <sjolin@swbell.net>
To: <ae5x@qsl.net>; "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Sunday, March 09, 2003 5:40 PM
Subject: Re: A K2 Borrower Speaks
> John, are you saying that you cant operate full qsk in split operation? At
> speeds of 35 wpm I cant understand what kind of delay you could be seeing
> with qsk with split that would cause a problem. I know I dont see any on
my
> TS-940S. If you are having a noticeable delay when using semi-breakin,
then
> the obvious solution is to set the menu to full breakin and the delay
should
> disappear.
>
> 73 de Dave, N0IT
>
>

Date: Sun, 9 Mar 2003 15:10:29 -0800
From: Bob Nielsen <nielsen@oz.net>
To: qrp-1@lehigh.edu
Subject: [147310] Re: Knock, knock ... Nobody's Home!
Message-ID: <20030309231029.GB5770@n7xy.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

Great site! I even found that there is a ghost town about 2 miles from

me. I knew it was there (Port Blakely, WA, the location of what was once the world's largest lumber mill) but never thought of it in the "ghost town" context like Bodie, CA or Pearce, AZ. There was also a shipyard there which produced a large number of 4 and 5-masted schooners. Most of the site has been torn down and some new houses have been built in the area (including K7IM's QTH) but there is still one old structure which is in an undeveloped city park, which I guess makes it a real ghost town. It's on marshland with open water to the east, which should make it a good TTF site.

73, Bob N7XY

On Sun, Mar 09, 2003 at 10:43:29AM -0700, Rod N0RC wrote:

> Need help finding a Ghost Town? Check out this web ring:

>

> <http://members.tripod.com/~catmandoo2/webring.html>

>

> 73, Rod N0RC

>

>

> ----- Original Message -----

> From: "J. Medley" <jmedley@ix.netcom.com>

> To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

> Sent: Sunday, March 09, 2003 2:03 AM

> Subject: Knock, knock ... Nobody's Home!

>

>

> > QRP To The Field 2003 -- Nobody's Home

> > -----

> >

> > Date: Saturday, April 26, 2003

> >

> > Time: 1500 to 2400 UTC (pick any 6 hours)

> >

> > Bands: 40-20-15-10 meters, in the vicinity of the QRP calling
> > frequencies, please be courteous to others

> >

> > Mode: CW only

> >

> > Power out (QRP only): 5 watts or less

> >

> > As usual, this event is geared toward having fun while operating
> > in the field, away from commercial power.

> >

> > The theme for this year is Ghost towns!

>

>

--

Bob Nielsen, N7XY
Bainbridge Island, WA
IOTA NA-065, USI WA-028S

n7xy@n7xy.net
<http://www.n7xy.net>

Date: Sun, 9 Mar 2003 18:16:33 -0500
From: "George Osier" <gosier@twcnny.rr.com>
To: <qrp-1@lehigh.edu>
Subject: [147311] i goofed :(
Message-ID: <003001c2e691\$ecc9f4e0\$aa634342@twcnny.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello All !!!!!!!

Worked Jim at 2253 UTC on 28480 today
Said he was in "Raratonga" but he QSYed before I could get his call
Been DXing since 1989 and have NEVER done one that dumb He isnt on
the DX SUMMIT SPOTS ...

HELP !!!!!!!!!!!!!!!!!!!!!

72s

George Osier , N2JNZ / QRP

Date: Sun, 9 Mar 2003 19:08:54 -0500
From: "Lee Mairs" <lmairs@direcway.com>
To: <ae5x@qsl.net>,
 "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [147312] Re: A K2 Borrower Speaks
Message-ID: <021601c2e699\$47015690\$3b6d020a@boomer>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> What I like most about the K2 is its ability to have a very narrow
> selectivity selected and yet have no ringing on a CW station.

Buying a K2 seems to be a hefty price to pay for for avoiding ringing. I

built a W3NQN five stage audio filter from one of his kits (I think the price was \$35 or less.) I haven't been able to detect any ringing, and when I use it to tune across 40 meters with my 2N2-40, the signals just seem to pop into my earphones and then pop out as I slowly tune by.

No financial blah-de-blah etc.

73 de Lee
km4yy

Date: Sun, 9 Mar 2003 19:09:55 -0500
From: "David E. Gilson" <kd3em@velocity.net>
To: <dfagundes@angra.uac.pt>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [147313] Re: Need small QRP antenna for 15M
Message-ID: <000901c2e699\$618c13b0\$07637841@yourw92p4bhlzg>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello David,

Well there are a lot of different antennas out there and most of them multi band, outbacker Joey, Barker & Williamson AP-10A, MFJ-1622 Apartment Antenna, and The Miracle Whip, just to name a few and you can find many home brew antennas on the web. I like the www.ac6v.com web site and if you look under antennas I'm sure that you can find what you are looking for. I have only used the Joey with my FT-817 and it does a nice job. I guess that the bottom line is to look around and ask questions on the antenna that you are interested in, and the final decision is yours. I hope that this help is some small way.

73/73 de Dave KD3EM
----- Original Message -----
From: "David Fagundes" <dfagundes@angra.uac.pt>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Sunday, March 09, 2003 2:04 PM
Subject: Need small QRP antenna for 15M

> Hello All,
>
> I'm starting in the QRP because I don't like, and I think a waste of power,

> the KW!
> I would like to know if anyone have a schematic or a brand for a small 15M
> antenna, that the working peak power will be 5W.
> I need this antenna for travel if possible in the luggage and to work in
> hotel rooms.
>
> Thank you for the help in advance!
>
> 73's
>
> CU3ED
> David
>

Date: Sun, 9 Mar 2003 19:11:05 -0500
From: "George Heron N2APB" <n2apb@erols.com>
To: "EPA-QRP" <EPA-QRP@yahooogroups.com>,
 "NoVAQRP" <NoVaQRP@topica.com>, "QRP-L" <qrp-l@lehigh.edu>
Subject: [147314] NJQRP meeting notes & pics
Message-ID: <004e01c2e699\$8d171480\$9fc23ad0@GHLTP4>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Please forgive the possible non-relevance to other groups, but I thought everyone might be interested in the various project photos published along with the notes from the NJQRP meeting yesterday.

73, George N2APB
n2apb@amsat.org

=====
Our semi-regular monthly meeting of the NJQRP started at 9am at our regular location in the Forrestal Village Mall food court of Princeton, NJ. Only 21 QRPers were able to make it this time but we still had a grand time with "Antennas" as the general theme.

Lots of images are posted with the online version of this report at the NJQRP website: http://www.njqrp.org/meetings/mtg_030803.html

Mike KB3HMR and George N2APB had their Sniffer field strength meters built up and ready for some live tests.
Antennas were erected by Ed K2MGM and Joe N2CX, and George N2APB and had his FT817 QRP transceiver driving them for some live RF transmissions.

Robert N2LO demonstrated operation of his latest project: a "GPS-to-Morse" box that receives GPS satellite signals outside and transmits the latitude-longitude information in Morse code over a low-power RF link back to the FT817 located inside at the meeting. Quite a neat set-up! He obtained one of those popular and inexpensive Motorola Encore12 GPS units (\$24 at bgmicro.com) and used a BASIC Stamp microcontroller to read the serial ASCII data it emanates, and then keyed a low-power oscillator module at Morse code rates for transmission to the receiver.

Dave N0YMV brought along a number of disassembled cell phones to the wonderment of many.

Ted W2TAG brought along a Jackson Harbor Press serial keyboard project that was fun to operate

Ed Roswell, K2GMG showed off the 40m-10m Small Transmitting Loop (STL) antenna that he built, and he gave a fine overview of its operation. This antenna has only a 65 KHz bandwidth, which is one of its great attributes, allowing it to naturally reject much QRM on adjacent frequencies and let the operator "see" through big pile-ups. It's variable vacuum capacitor is a very valuable and efficient component in this system. Ed supplied us with a summary sheet of the loop's characteristics, and a spreadsheet program that he developed from equations in The Loop Book, by Ted Hart W5QJR. Thanks for letting us post your spreadsheet Ed

George N2APB demonstrated the growing functionality in the club's suite of "digital projects". The HC908 Daughtercard was operational in the HC908 Test Fixture, blinking its heartbeat LED, reading/displaying the voltage off a pot and the frequency generated through the DDS Daughtercard when turning the shaft encoder. This software forms the basis of the Antenna Analyzer, which was also shown in the final form factor. George reported that the final pcb for this project is at the fab shop right now. He also mentioned that the HC908 Daughtercard is ready to ship and he just needs the time home from his weekly business travel to the west coast in order to get those 200 orders into the mail

N2CX demonstrated his latest QuickieLab addition, the DDS VFO, with the DDS Daughtercard plugged into the main QL board. This will be the subject of his column in the forthcoming Spring QRP Quarterly magazine

And as usual, there was lots of time for gabbing and talking about all the various projects and field experiences we had since last time.

BTW, we are all really happy to see Al Owen, WA3OWT back with us now and recovering from his recent (serious) illness. And also sorry not to see

Dave Porter, AA3UR, at the meeting. Dave is laid-up with a bad back.

See you all at Atlanticon at the end of this month!

73, George N2APB n2apb@amsat.org
and Joe N2CX n2cx@voicenet.com

Attendees:

K2CPE, WA2DJN, WB2ZKW, N2CAU, KB3HMR, K2GWH, WA3OWT, W2BVH, WA2DGD, KA2UPW,
W2TAG, N2AK, W2RDS, N2GJ, N2ATJ, K2GW, KB2EGI, N0YMV, K3PM, N2CX and N2APB.

Date: Sun, 09 Mar 2003 19:17:26 -0500
From: "Bill, N4QA" <n4qa@hotmail.com>
To: qrp-l@Lehigh.EDU
Subject: [147315] VB5 source code for DSWTUN03 and DSWTUN95 now available...
Message-ID: <BAY1-F125sNQptgFrYI0002e63b@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Just posted my Visual Basic 5.0 source code for DSWTUN03 and DSWTUN95 at my
website, in case anyone might be interested...
May not be much to look at but it sure has been fun :)

73.
Bill, N4QA
<http://www.qsl.net/n4qa/>

MSN 8 with e-mail virus protection service: 2 months FREE*
<http://join.msn.com/?page=features/virus>

Date: Mon, 10 Mar 2003 01:32:43 +0100 (MET)
From: dl6aaf@t-online.de (Uwe Meier)
To: qrp-l@lehigh.edu
Subject: [147316] Fwd: 13th OQRPC: where from?
Message-ID: <200303100032.BAA00297@joringel.t-online.de>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

From: DJ7ST@DB0ABZ.#NDS.DEU.EU
QRP-Contest-Community (qrpcc)
c/o Dr. Hartmut Weber, DJ7ST
Schlesierweg 13
D-38228 SALZGITTER

08-Mar-2003

Dear OQRP Contest friends,

QRP radio waves cross borders without needing passports.
Thus the Original QRP Contest fortunately is fermenting not only in DL-juice.
It appears to be of interest where the signals (more accurately the logs)
in the 13th OQRPC came from:

1. DL: 105
2. OK: 17
3. PA: 10
4. EA: 6
 F: 6
 HB9: 6
 ON: 6
 SP: 6
9. G: 5
10. OZ: 4
11. I: 3
 OM: 3
13. HA: 2
 LZ: 2
 UR: 2
 W: 2

Only one valid entry from 9A, GM, GW, LA, OE, OH, SM, YO;
no one from UA, YU, S5....

The above is open to speculation and opinion. There certainly is
no proportional relationship with population. Did you expect the "native
country of QRP" on the 9th place?
Maybe also deciding are "multipliers" like the "OK-QRP-Info" or the Benelux
"QRP-Nieuwsbrief"? After all, at least both these QRP magazines welcome
informations about QRP activities noticeable on the bands....

73/2 "Hal", DJ7ST

Date: Sun, 09 Mar 2003 17:53:12 -0700
From: "P. Ermisch" <ermisch@usa.net>
To: <qrp-l@Lehigh.EDU>
Subject: [147317] 20M QRM today?
Message-ID: <122HcJa2m7056S07.1047257592@uwdvg007.cms.usa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

Played around in the Wisconsin QSO Party today and heard some strange QRM= that
I have not heard before. Sounded like millesecond bursts of SSB scattere= d
over a 20 or 30 kHz range (14.030 to 14.050) around 2100Z to 2200Z. I wo= uld
doubt it's the rig (FT100D) but did not get a chance to compare since I w= as
away from home at the time. Is it just me or did anyone else hear it?

Paul KB0LUR

Date: Sun, 09 Mar 2003 17:05:07 -0800
From: <mm1esg@compuserve.de>
To: qrp-l@LeHigh.EDU
Subject: [147318] Re: A K2 Borrower Speaks
Message-ID: <b9fcc6f2.c6f2b9fc@compuserve.de>
MIME-Version: 1.0
Content-Language: de
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline
Content-Transfer-Encoding: 7bit

Well John, AE5X, I have been belittled for my interest in homebrew & QRP by a QRO OP. Uwe, DC2.. recently borrowed my 3-digit serial # K2 and decided to have it replace his IC-756 (old model). // With a K1 and a dipole which almost touched the grass, I had my first few CW QSOs. So my opinion doesn't count, but my friend Tom put some stuff on his website: <http://www.qsl.net/dl2hrf> ** Sold my FT-840, will by another K2 hi. Chris kf6vci

Date: Sun, 9 Mar 2003 18:41:45 -0700

From: "Rod NØRC" <rod@n0rc.us>
To: "qrp-l" <qrp-l@Lehigh.EDU>, <elecraft@mailman.qth.net>
Subject: [147319] co0o?
Message-ID: <00a901c2e6a6\$35ab65e0\$6601a8c0@greyrock>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

During EQP I heard/worked co0o, Cuba no doubt, but can't find any
ID/INFO. Can anyone help?

73, Rod NØRC

Date: Sun, 9 Mar 2003 20:41:40 -0500
From: "George Heron N2APB" <n2apb@erols.com>
To: "NoVAQRP" <NoVaQRP@topica.com>, "NJQRP" <njqrp@njqrp.org>,
"EPA-QRP" <EPA-QRP@yahooogroups.com>, "QRP-L" <qrp-l@lehigh.edu>
Subject: [147320] Atlanticon Speaker - Jon Iza, EA2SN
Message-ID: <000b01c2e6a6\$3e5ee040\$b8c23ad0@GHLTP4>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Atlanticon-goers this year are in for another real treat. We are lucky to have Jon Iza, EA2SN as our "lunchtime keynote" speaker telling us about the typical European QRPer, and the facility he or she has to "work countries". There will be some maps, for comparison with the typical situation in the States.

The lunchtime talk during Saturday's busy line-up of presentations has become a bit of a tradition at Atlanticon. After all the QRPers have shuffled back into the ballroom with their box lunches & sodas, the featured speaker informally presents an interesting topic that is often light and humorous. Last year, Dave Benson, K1SWL gave us a great lunchtime update on two new products coming from his Small Wonder Labs.

Dr. Jon Iza is a staunch and long-time supporter of the NJQRP Club. Even as a busy full professor at the University of the Basque Country Escuela de Ingenieros (in Spain), he has participated in every club kit and has contributed CCW and other technical material to help keep the club's efforts near the leading edge of digital and antenna fronts.

We're proud to have Jon join us at Atlanticon this year ... and we hope that you also can attend to hear EA2SN and the other fine QRP experts presenting in Baltimore on March 29th. That's only 3 weeks away ... yikes! :-)

73, George N2APB n2apb@amsat.org
and Dave AA3UR njqrp-kits@comcast.net
for the Atlanticon QRP Forum at
<http://www.njqrp.org/atlanticon/atlanticon2003.html>

- - - - -
About EA2SN ...

I got involved on radio stuff when the "Tres Reyes Magos" (the equivalent of Santa in Spain) gave me the "Philips Electronic Engineer", an electronics Erecto set. I built on the spot a three transistor radio and when it worked I cried so hard my family thought I was getting electrocuted. That was followed by many radios into cigar boxes and plenty of non-working contraptions. I thoroughly read everything I had at hand, and my mouth was wide open when I was reading all those stories from the Handbook, QST, CQ and translations on the Spanish URE journal "Radioaficionados". I always enjoyed seeing the photos of big American cars with call-sign license tags, because such auto tags were not available in Spain. I dreamed that someday, somehow I, too, would have a ham radio auto plate. After 100+ countries heard as an SWL I applied for my ham ticket the day I was 18. Even though Generalissimo Franco was dead I had to go through questioning by the "Brigada Social", the remains of the political police, who asked me questions such as: How many millivolts does have your antenna? I was quite naif and started correcting him: "the antenna does not have millivolts. It's the rig which may have power, measured in watts..." you figure out. I almost get kicked up for playing wise. Anyway, in March 1978 I was given the EA2SN call that I hold since that time.

I was attending the University since 1975, where I got a degree on Sciences an, after compulsory military duty at the Air Force, where I was Weather Observer and got a chance to operate ECK station, I worked for a while as a microprocessor technician and went back to School to earn a D.Sc. on wastewater treatment research. I took an opportunity for a scholarship to study abroad and went to the Agricultural University in the Netherlands and, later on, to the University of Massachusetts. I got a reciprocal permit from the FCC, and, best of all, I got a Massachusetts EA2SN call-sign auto tag. Sometimes, if you work some and get lucky, dreams come true. Nowadays I keep a photocopy of the auto tag on my office door at the University of the Basque Country (where I teach Environmental Engineering), so anyone who comes by can see that a ham is inside!

I always operate QRP, and have earned some wallpaper. Recently I've been reviewing electronic keyers and QRP rigs for the Spanish ham journal "Radioaficionados".

Date: Sun, 9 Mar 2003 20:47:44 -0600
From: "Mike Duke, K5XU" <k5xu@jam.rr.com>
To: "qrp list" <qrp-l@lehigh.edu>
Subject: [147321] Best Simple Introduction Book
Message-ID: <00a801c2e6af\$6fe8fac0\$dbd8a418@jam.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

My wife wants to find a good basic introduction to Amateur Radio book. She doesn't plan to become licensed, but just wants to learn the basics of her husband's addiction!

Any suggestions?

Mike Duke, K5XU
American Council of Blind Radio Amateurs

Date: Sun, 9 Mar 2003 22:50:48 -0500
From: "Joe W2KJ" <w2kj@bellsouth.net>
To: "qrp-l" <qrp-l@lehigh.edu>
Subject: [147322] Millen grid dipper
Message-ID: <000e01c2e6b8\$3c9ba740\$220110ac@gateway.2wire.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Howdy Gang:

The Millen grid dipper I advertised for sale earlier has been sold.

73, Joe W2KJ

Date: Sun, 9 Mar 2003 20:53:58 -0700
From: "Brian P. Mileschosky" <n5zgt@swcp.com>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [147323] ARRL RF Design Book - THANKS!
Message-ID: <005f01c2e6b8\$aec1c2a0\$dc04b8d8@hlw11>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi All,

To those who responded to my query about the two ARRL RF Design books, thank you for your kind comments! I'll be purchasing them soon!

72,
Brian, N5ZGT

Amateur Radio Station N5ZGT - N5ZGT PBBS, 145.01 MHz
ARRL Life Member, NorCal #1700, QRP-L #580, AK/QRP #125
Boy Scouts of America - Eagle Scout - ASM, Troop 85
Vigil Honor Member, O.A. Lodge 66 Yah-Tah-Hey-Si-Kess
Please visit my site at <http://www.unm.edu/~brianm>

Date: Sun, 9 Mar 2003 23:23:25 -0500
From: "George Heron N2APB" <n2apb@erols.com>
To: "EPA-QRP" <EPA-QRP@yahoogroups.com>,
 "NoVAQRP" <NoVaQRP@topica.com>, "QRP-L" <qrp-l@lehigh.edu>,
Subject: [147324] Sniffer Kit price increase
Message-ID: <006701c2e6bc\$ccad6130\$67c13ad0@GHLTP4>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

The introductory Atlanticon promotional period has expired as of this date (March 9, 2003) and the price of the "Sniffer" Field Strength Meter Kit has been increased to \$20. Orders with the old price received after this date will be returned with an option to submit the additional funds and keep one's place in the order queue.

Shipping is still free to US and Canadian destinations. (DX orders add \$5)

If you haven't yet registered for Atlanticon QRP Forum, you can still do so

we can still get your Sniffer Kit to you in advance by mail, but you will need to pay the price of the Sniffer Kit (\$20). We'll then give you a \$10 rebate at Atlanticon.

As mentioned last week, we are shipping Sniffers first to those pre-registered to attend Atlanticon, thus allowing them to build the kits before the March 28-29 weekend. Sniffer Kits for other customers will be shipped after Atlanticon, beginning the first week of April. Thanks for understanding our limited kitting bandwidth and parts availability. We'll have plenty of kits for everyone along the way.

73, Dave AA3UR njqrp-kits@comcast.net
and George N2APB n2apb@amsat.org
for the NJQRP Club at www.njqrp.org
and Atlanticon at
www.njqrp.org/atlanticon/atlanticon2003.html

Date: Sun, 09 Mar 2003 19:29:15 -0800 (PST)
From: Nelson Winter <thenels@go.com>
To: Rock-Mite_Group@yahooogroups.com, qrp-1@Lehigh.EDU
Subject: [147325] Schematic Software
Message-ID: <5532565.1047267024194.JavaMail.thenels@gomailjtp05>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

Hi group,

I am making a feeble attempt to put a rock-mite website together, and I'm in need of some software that'll allow me to draw a schematic and output it in .GIF or .JPG format. AND, of course, I don't want to spend a penny for it because I'm cheap and poor. I run Windows 98 (I know, I know!).

What are your recommendations?

Thanks in advance,

Nelson Winter
WB6DWD
Less = More

GO.com Mail
Get Your Free, Private E-mail at <http://mail.go.com>

Date: Sun, 09 Mar 2003 19:35:54 -0800 (PST)
From: Nelson Winter <thenels@go.com>
To: Steven Weber <kd1jv@moose.ncia.net>,
Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [147326] Re: QRP Digital Wattmeter
Message-ID: <4236415.1047267354085.JavaMail.thenels@gomailjtp05>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

>
>I'm also trying to calculate SWR, but I don't know how to do fractional
>division in binary, so the result is in whole numbers, i.e., 1, 2, 3, ect.
>That info isn't real helpful, so might drop the SWR feature unless I can
>find out how to do the math better.
>
Couldn't you just multiply by ten when doing your calculations, then devide by 10
when displaying, or just leave it as '12' which would actually be 1.2:1. I know I
could live with that.
Less = More

GO.com Mail
Get Your Free, Private E-mail at <http://mail.go.com>

Date: Mon, 10 Mar 2003 00:10:03 -0500
From: sergio <sergio@village-buzz.com>
To: qrp-1@Lehigh.EDU
Subject: [147327] hw-8/zm-2 progress..
Message-ID: <5.1.1.6.0.200303100000315.035aa570@mail.neobright.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

the hw-8 came in just fine..

i hooked it up, and got it all turned on, and it works fine! woo hoo!

the guy who sold it to me said he was not sure, but thought that it might
need to be aligned.. i am not sure how to tell if that is the case, but i
figure i might just go through the procedure (the book was included) and

just do it to give me an excuse to see the guts..

i tuned it up for 40m.. and it tuned in the same place that the 40-40 tuned at... and the led did not go all the way out either..

i changed to 20m.. and tuned it.. and the led went TOTALLY out.. it worked just as it should.. so i might just go out tomorrow and lop a few feet off the antenna, and see if this helps on 40..

i did notice a TON more signals on this radio than with the 4040, but i am guessing that since the 40-40 takes ten turns to go through i think 20khz, that is probably why...

i went to radio shack, and picked up an adapter for the radio..

for rca to bnc..

i have headphones hooked up.. but dangit.. they are stereo phones, and a stereo adaptor.. so i only hear out of one ear.. but i will get that taken care of.. i should have an adapter somewhere..

so, all that being said.. i just need to get a qso with the hw-8!

thanks for everyone's help!

peace,

sergio

www.village-buzz.com - "the village buzz"

www.mp3.com/village_buzz - "the rock n roll, baby!"

www.coffee-black.com - rock photo!

phone ... 419 606 0557

to subscribe to The Village Buzz, send a blank email to:

VB-Announce-subscribe@yahoogroups.com

www.amazon.com/o/registry/3L7DM7FMR50QU <- buy me some swag!

Date: Mon, 10 Mar 2003 00:11:44 -0500

From: sergio <sergio@village-buzz.com>

To: qrp-1@Lehigh.EDU

Subject: [147328] i'll take a manhattan.. make it a double!

Message-ID: <5.1.1.6.0.20030310001006.03538dc8@mail.neobright.net>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

thanks to everyone who gave me all the advice on manhattan!

i will be doing a memory keyer for my first project..

thanks again!

peace,

sergio

www.village-buzz.com - "the village buzz"

www.mp3.com/village_buzz - "the rock n roll, baby!"

www.coffee-black.com - rock photo!

phone ... 419 606 0557

to subscribe to The Village Buzz, send a blank email to:

VB-Announce-subscribe@yahoogroups.com

www.amazon.com/o/registry/3L7DM7FMR50QU <- buy me some swag!

Date: Mon, 10 Mar 2003 07:34:24 -0500

From: David Porter <aa3ur@comcast.net>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [147329] NJQRP Sniffer Price Increase

Message-ID: <NGBBICPOCLKMGIBGGBEAEJNDEAA.aa3ur@comcast.net>

MIME-version: 1.0

Content-type: text/plain; charset=iso-8859-1

Content-transfer-encoding: 7BIT

As of today, the NJQRP Sniffer Field Strength Meter kit will be sold for \$20.00. Atlanticon attendees will receive a \$10 rebate at Atlanticon.

Starting immediately, PayPal orders received with a \$10 payment will be refunded with an explanation. IF you want to purchase at the new price, just send in a new PayPal payment for \$20 each. Snail mail orders will be returned via snail mail with the same explanation.

<http://www.njqrp.org/sniffer/index.html>

The parts alone in this exciting kit would be more than the registration fee if it weren't for the generosity of our two benefactors, Scott Gregson KC7MAS and Doug Hendricks KI6DS, who supplied the Polyvaricon capacitor and the meter respectively. Even with their generosity, the parts cost and postage is treacherously close to the registration price. The funds raised

by the club are used each year to fund Atlanticon. This enables us to keep the registration fee very low and still provide an interesting kit along with registration. We will continue to offer a great value to Atlanticon Attendees by refunding \$10 at Atlanticon, while adding to our coffers for next year's Atlanticon with the continued sales of the kit to others.

We enjoy the low prices we are able to charge for these kits as much as anyone. We wouldn't make the kits if we didn't. But we want to insure that we will continue to be here to produce kits for all of us in the future and to continue to sponsor the Atlanticon gathering.

Thanks for supporting NJQRP,

Dave, AA3UR

Date: Mon, 10 Mar 2003 09:26:54 -0500
From: "w8diz" <w8diz@fpqrp.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [147330] Manhattan vs. Ugly Construction
Message-ID: <000e01c2e711\$19e00fd0\$b8cf1d41@cinci.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Hi Gang,

I've been doing "Ugly" style construction on bare copper boards since 1971. Since I joined QRP-L 4 years ago, I see all this stuff on Manhattan construction using pads. Seems like a lot of extra work to me, but I've never done it so I ask...

Can someone THAT HAS DONE BOTH tell me the advantages of Manhattan vs Ugly if there are any?

72 & "oo's" - Dieter (DIZ) Gentzow - W8DIZ - Loveland, Ohio
Clermont County - EM79uf - near Cincinnati; 39:13:05N 84:18:18W
RIG:multiPIG+ ANT:470 FT Horiz Loop <http://kitsandparts.com>

Date: Mon, 10 Mar 2003 14:24:22 -0000

From: "Juan Ferrari" <puntrad@usa.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>,
<rod@n0rc.us>
Subject: [147331] Re: co0o?
Message-ID: <005b01c2e710\$c06da7a0\$3ae5d7ce@puntana.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Rod.

C000 is an special call from Cuba. This is the second of a serie of special calls that should form the name Jose Marti. As obvious the first was C00J.

72

Juan - KG4FSN

----- Original Message -----

From: Rod N0RC <rod@n0rc.us>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Sent: Monday, March 10, 2003 1:41 AM
Subject: co0o?

> During EQP I heard/worked co0o, Cuba no doubt, but can't find any
> ID/INFO. Can anyone help?
>
> 73, Rod N0RC
>
>

Date: Mon, 10 Mar 2003 09:34:44 -0500
From: David Hinerman <WD8CIV@worldnet.att.net>
To: qrp-1@lehigh.edu
Subject: [147332] Re: Schematic Software
Message-ID: <5.1.1.6.1.20030310091604.00a55960@ipostoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Nelson,

I use Circad <<http://www.holophase.com/>> for schematics and PCB layouts, but it only writes .BMP files. I then use an old version of LViewpro to convert them to .JPG or .GIF. (.GIFs are better for schematics, BTW - the file compression is better.)

LViewpro is shareware, and more recent versions have a time-limited trial

mode. The older version I have (1.C5 from Windows 95) doesn't have that limitation, but it's probably not available any more.

There are plenty of image converter programs available for free. A quick Google search for "freeware convert bmp to gif" turned up over 20,000 hits. The first one is for a program called GiFFY, which looks like it'll do the job. (I haven't used it but I think I'm going to give it a try - it says it'll support batch mode conversion of multiple files, which LViewpro won't.) <<http://www.webattack.com/get/giffy.shtml>>

Here's an example of a schematic I made with Circad, and you can download a file with the actual layout files. <<http://home.att.net/~wd8civ/tick.html>>

Dave

At 07:29 PM 3/9/2003 -0800, you wrote:

>Hi group,

>

>I am making a feeble attempt to put a rock-mite website together, and I'm
>in need of some software that'll allow me to draw a schematic and output
>it in .GIF or .JPG format. AND, of course, I don't want to spend a penny
>for it because I'm cheap and poor. I run Windows 98 (I know, I know!).

>

>What are your recommendations?

>

>Thanks in advance,

>

>Nelson Winter

>WB6DWD

>Less = More

>

>-----
>GO.com Mail

>Get Your Free, Private E-mail at <http://mail.go.com>

Dave Hinerman

WD8CIV@worldnet.att.net

Date: Mon, 10 Mar 2003 14:43:24 +0000

From: "Leon Heller" <leon_heller@hotmail.com>

To: thenels@go.com, qrp-1@Lehigh.EDU

Subject: [147333] Re: Schematic Software

Message-ID: <F94nMQ3jvbHdei8Mwrm0000f94e@hotmail.com>

Mime-Version: 1.0

Content-Type: text/plain; format=flowed

>From: Nelson Winter <thenels@go.com>
>Reply-To: thenels@go.com
>To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
>Subject: Schematic Software
>Date: Sun, 09 Mar 2003 19:29:15 -0800 (PST)
>
>Hi group,
>
>I am making a feeble attempt to put a rock-mite website together, and I'm
>in need of some software that'll allow me to draw a schematic and output
>it in .GIF or .JPG format. AND, of course, I don't want to spend a penny
>for it because I'm cheap and poor. I run Windows 98 (I know, I know!).

The free evaluation version of Eagle will probably do what you want. Use the
PrtSc key to copy the image to the clipboard and paste it into MS Paint to
create a GIF.

Leon

--

Leon Heller, G1HSM Tel: +44 1424 423947
Email:leon_heller@hotmail.com
My web page: http://www.geocities.com/leon_heller

MSN Messenger - fast, easy and FREE! <http://messenger.msn.co.uk>

Date: Mon, 10 Mar 2003 09:38:23 -0500 (EST)
From: <n2go@arrl.net>
To: <qrp-1@Lehigh.EDU>
Subject: [147334] WTB coaxial power connectors
Message-ID: <Pine.LNX.4.33.0303100937170.19560-1000000@valhalla.v>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I am looking for about 5-10 pieces of quality single hole mounted 3.5 mm

coaxial power sockets for use in variety of projects. I am making several pieces of test equipment and I want to standarize the power input. My Index qrp rig has a nice dc jack.If anyone knows what part number or manufacturer those are... I want to avoid the plastic ones from RS. Single hole mounts would be easier to install. Anyone have a stash or source?

73,

Jim n2go

Date: Mon, 10 Mar 2003 08:49:59 -0600
From: "Burl A. Keeton" <n5duq@juno.com>
To: qrp-l@Lehigh.EDU
Subject: [147335] RE: Argonaut 515 for SALE
Message-ID: <20030310.085000.-778647.0.n5duq@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Gang,

I have a very nice, clean, working, in excellent condition, a Argonaut 515. I decided to sell it because I have to many QRP rigs. For those not familiar with the 515, it is a later version of the 509. The 10 meter band is spread out with a separate switch. It is brown with black ends (same as the 509).

I will ship and insure it to your door for \$425 in the USA. DX station will have to check on the extra charge for shipping.

For those in a hurry, phone me at (405) 722-4781 in Oklahoma City, OK

No Pay Pal, just Money orders or check but shipped after the check clears.

To be sure you are the first to respond, please put the time of you email down on your reply.

73

Burl Keeton N5DUQ

Date: Mon, 10 Mar 2003 09:49:36 -0500
From: wkhibbert@juno.com
To: qrp-1@lehigh.edu
Subject: [147336] RCA Jack in RF applications
Message-ID: <20030310.095436.-397203.1.wkhibbert@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi. Keith here in the Depths of the Great Bergen Swamp

Heath was not the only company that used RCA jacks in RF applications,
Collins was known to do the same.

The KWM-2 we had at the club station in Groton (K1SSN) had a
ceramic-insulated RCA jack for the output. One of the ops moved the rig
and put transverse stress on the connector, breaking the ceramic to bits.
When we replaced it with a stock phenolic model, it did not hack the RF
and we ended up having the R-4 techs put a BNC in the chassis.

The Ten Tec Argonauts, at least the 505 and 509 also used RCA jacks for
the antenna connector. I replaced them on all of my Argonauts with
SO-239's as I bought those rigs.

The RCA connector is not evil by itself, but the cheap ones are designed
for nothing higher than audio.

73, Wm. Keith Hibbert, WB2VUO, TC/WNY ARRL Section
President, Brockport Amateur Radio Klub
"My night light runs more power than my Rig!!!"

Sign Up for Juno Platinum Internet Access Today
Only \$9.95 per month!
Visit www.juno.com

Date: Mon, 10 Mar 2003 10:14:37 -0500
From: "Garey Barrell" <k4oah@mindspring.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [147337] Re: Schematic Software
Message-ID: <001e01c2e717\$c4233160\$6501a8c0@hp>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Nelson -

Take a look at Tubepad 6.0 at:

<http://www.qsl.net/wd4nka/TEXTS/Tubepadf.html>

Simple and easy to use.

73, Garey - K40AH
Atlanta

>From: Nelson Winter <thenels@go.com>
>
>Hi group,
>
>I am making a feeble attempt to put a rock-mite website together, and
I'm
>in need of some software that'll allow me to draw a schematic and
output
>it in .GIF or .JPG format. AND, of course, I don't want to spend a
penny
>for it because I'm cheap and poor. I run Windows 98 (I know, I
know!).

Date: Mon, 10 Mar 2003 10:17:47 -0500
From: Bob Patten <n4bp@bellsouth.net>
To: Elecraft Reflector <elecraft@mailman.qth.net>,
SOC Reflector <soc@mailman.qth.net>,
Subject: [147338] Results W0SOC in EQP
Message-ID: <3E6CAC9B.4090602@bellsouth.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

2003 ELECRAFT QSO PARTY

Call used: W0SOC

Location: FL

Category: K2/438 for all QSO's

Mode: MIXED

Power: 5W

Callsign of Operator(s): N4BP

Exchanged Information: W0SOC 559 K2/438 FL

Hours of Operation: 17:35

band	CW QSOs	CW pts	Ph QSOs	Ph pts
160	0	0	0	0
80	7	21	0	0
40	86	258	0	0
20	120	360	0	0
15	127	381	3	9
10	26	78	2	6

TOTAL	366	1098	5	15

Bonus Points: 50 (10 Field Tester's)

25 (Battery Power)

--

75 Bonus Points + 1113 QSO Points = 11188 TOTAL SCORE

Club or Team Name: Aluminum Kings

Comments: W0SOC is the new call of the Second Class Operator Club.

This was the first time the call was used. For six hours of the EQP, the SOC Marathon Sprint was also on. During that time period, "SOC NR 1" was included in my sent exchange.

Noteable QSO's: Field Tester HB9AFH - three bands

OK1NR - Pres of Czech SOC

UA9AKW

FG/SM6LOD

WB6HGJ K2/4428 (That's what he sent!)

K1/1135 & K2/1135 back to back QSO's

Field Testers #1 & #2

--

73, Bob Patten, N4BP

Plantation, FL

E-Mail: n4bp@arrl.net

Website: <http://www.qsl.net/n4bp>

QRP ARCI #3412

SOC #1

ARS #799

Whiners #6 FISTS #7871

Date: Mon, 10 Mar 2003 08:33:17 -0800

From: "William Phinizy" <k6whp@verizon.net>

To: "QRP-L" <qrp-l@Lehigh.EDU>

Subject: [147339] Mutual Inductance Coefficient and Toroid Impenace
Message-ID: <001d01c2e722\$e5d549a0\$c261e043@sydelpgnr79gmd>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

I am using Micro Cap 6.0 (the demo version) in order to better understand the behavior of filters, etc. In developing a bandpass filter that is essentially the front end of one of Doug DeMaw's designs (The 75-meter SSB receiver article in QRP Classics), I note that he uses a toroidal transformer to match the impedance of a 50-ohm antenna to what appears to be another value. I have the following questions:

(1) The turns ratio (P:S) is 1:11 so presumably he wants to match 50 ohms to the square of (50x11)? Huh? 300 Kilohms?

(2) How does one -- generally -- determine the impedance of the windings of a toroid transformer? Inductor?

(3) Mutual inductance is defined (from one of my references) as the square root of the primary inductance times the secondary inductance. Is this pretty close to gospel?

My reason for asking #3 is that Micro Cap derives transformers by having you supply the primary inductance, secondary inductance, and "k" or mutual inductance coefficient. The last parameter is defined as:

$$k = \frac{M}{\sqrt{P_s * L_s}}$$

Where M is the mutual induuctance coefficient. If that is so, then it appears that the k will always be 1 since the reference definition of mutual inductance is the same as the expression in the denominator of the equation above..

..at this point -- being a business major -- I am gasping for air. But I thought this would be an interesting subject to investigate and appreciate any and all help (URLs, etc.)

72,

Bill, k6whp

Date: Mon, 10 Mar 2003 08:58:55 -0800
From: "Ian Wilson" <ianmwilson@earthlink.net>
To: <k6whp@verizon.net>,
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [147340] Re: Mutual Inductance Coefficient and Toroid Impenace
Message-ID: <002e01c2e726\$5639d780\$0b02a8c0@WorkGroup>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Hi Bill,

> I am using Micro Cap 6.0 (the demo version) in order to
> better understand the behavior of filters, etc. In
> developing a bandpass filter that is essentially the front
> end of one of Doug DeMaw's designs (The 75-meter SSB
> receiver article in QRP Classics), I note that he uses a
> toroidal transformer to match the impedance of a 50-ohm
> antenna to what appears to be another value. I have the
> following questions:

>
> (1) The turns ratio (P:S) is 1:11 so presumably he wants to
> match 50 ohms to the square of (50x11)? Huh? 300 Kilohms?

Impedances are related by the turns ratio squared. So 50ohms transformed through
1:11
becomes $(11 \times 11) \times 50 = 6.05k$.

>
> (2) How does one -- generally -- determine the impedance of
> the windings of a toroid transformer? Inductor?

The inductance of a single winding is given by the number of turns squared times a
value
which is published by the manufacturers. (Actually everyone looks on sites like:
<http://kitsandparts.com/xtoroids.html> because they are intrinsically lazy, like
me).

>
> (3) Mutual inductance is defined (from one of my references)
> as the square root of the primary inductance times the
> secondary inductance. Is this pretty close to gospel?

Mutual inductance between a pair of 100% coupled windings is the geometric mean,

i.e.

the square root of their products. So if you mean the square root of the (primary inductance

x secondary inductance) then you've got it.

>

> My reason for asking #3 is that Micro Cap derives
> transformers by having you supply the primary inductance,
> secondary inductance, and "k" or mutual inductance
> coefficient. The last parameter is defined as:

>

>
$$k = \frac{M}{\sqrt{L_p \times L_s}}$$

>

> Where M is the mutual inductance coefficient. If that is
> so, then it appears that the k will always be 1 since the
> reference definition of mutual inductance is the same as the
> expression in the denominator of the equation above..

k is 1 for an ideal transformer with no leakage inductance. For toroids well below the rated

frequency of the core, and with regular windings, this is probably a pretty good approximation.

My guess is that all circuit simulators use the 'k' approach because it's much simpler to specify a coupling factor and the names of N inductors than to specify a whole bunch of mutual inductances.

>

> ..at this point -- being a business major -- I am gasping
> for air. But I thought this would be an interesting subject
> to investigate and appreciate any and all help (URLs, etc.)

>

> 72,

>

> Bill, k6whp

>

Hope this helps.

72 de ian, k3imw/6

Date: Mon, 10 Mar 2003 03:47:02 -0500
From: Alex <kr1st@amsat.org>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [147341] Homebrewing a headset
Message-ID: <3E6C5106.EFC4DF16@amsat.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi there,

I was thinking of using one of those computer or phone headsets for my Icom rig for my QRP SSB contesting. I did get permission from the boss to buy a ProSet II, but can't see myself paying all that money for something that probably can be homebrewed cheaper. So I made a test setup with a computer microphone, regular headphones and a footswitch which works very nice. The problem is of course which headset to select.

Would I be better off with a computer headset or a phone headset? I prefer headphones with full size ear cups to block background noise, so that pretty much rules out phone headsets. The full size headsets are probably also more comfortable during long contest hours.

When looking at different headsets I see that they either use regular electret or noise canceling electrets. I have no experience with the latter. Would it be all that beneficial to use a noise canceling electret?

Thanks and 73,
--Alex KR1ST

Date: Mon, 10 Mar 2003 09:35:50 -0800
From: Eric Swartz WA6HHQ - Elecraft <eric@elecraft.com>
To: aa5tb@arrl.net, QRP-L <qrp-l@lehigh.edu>, elecraft@mailman.qth.net
Subject: [147342] Re: Argo V Numbers added to RX Comparison Tables
Message-ID: <3E6CCCF6.7000802@elecraft.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

Hi Steve,

I apologize for the confusion. I was out of town this weekend and was not able to reply until today.

They do have RF amplification in their RX front end, but it results in a MDS figure similar to other radios with their pre amps turned off. My goal was to make sure radios are compared for dynamic range in a similar manner by referencing similar MDS (sensitivity) numbers.

I've reworded the note for the Argo and other rigs that don't have two sets of ARRL dynamic range test numbers to read as follows:

"Note 1: Only one set of numbers is listed because these radios use a fixed gain front end which is not switchable. Compare their dynamic range and IP3 numbers to other rig's by using similar MDS figures to determine which set of numbers to use (pre-on / pre-off) for comparison."

Hopefully this will clarify the issue :^)

73, Eric WA6HHQ
<http://www.elecrafter.com>

=====

Steve Yates wrote:

Thanks for the table update.

As a sidenote, your table indicates "No switchable Pre Amp., Compare to Pre-Amp OFF Numbers" for the Ten-Tec Argonaut V. I believe this to be misleading in that the pre-amp is simply on all the time (Q31-Q33). It would be more fair to compare the test results to those of other rigs with their pre-amps on. Even the ARRL review neglected to mention this fact.

I don't see how simply removing the pre-amp switch should be enough reason to give the Argonaut V such punishment, from the ham world in general that is.

73, Steve Yates - AA5TB

Date: Mon, 10 Mar 2003 13:19:29 -0500
From: "Noyce, Bill" <william.noyce@hp.com>
To: <qrp-1@lehigh.edu>
Subject: [147343] Re: Mutual Inductance Coefficient and Toroid Impenace
Message-ID:
<6D6463F31027B14FB3B1FB094F2C74470347AF82@tayexc17.americas.cpqcorp.net>
content-class: urn:content-classes:message
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: quoted-printable

> (1) The turns ratio (P:S) is 1:11 so presumably he wants to
> match 50 ohms to the square of (50x11)? Huh? 300 Kilohms?

No, it sounds like it's matching to 50 times the square of 11,
or about 6 Kohms.

> (2) How does one -- generally -- determine the impedance of
> the windings of a toroid transformer? Inductor?

The inductance of a toroid is proportional to the square of the
number of turns (each pass through the center counts as a turn).
The constant of proportionality, called $A_{sub}L$ varies with the
material, and is listed in the ARRL Handbook, or on these Web
pages:

<http://www.bytemark.com/products/iptcal.htm>

<http://www.bytemark.com/products/ferral.htm>

Note that the Iron-Powder cores list the proportionality constant
in microhenries per 100 turns, while the Ferrite cores list it
in millihenries per 1000 turns. Be sure you know which you're
using!

Given the inductance and your frequency, compute impedance as
 $Z = 3D \ 2\pi \cdot f \cdot L$ (Z in ohms, f in Hertz, L in Henries).

3. Mutual inductance depends on the coupling coefficient,
or "k" in your formula. For toroidal transformers, it is
pretty close to 1, but for other transformers it can be less.
Thus, $M = 3D \ k \cdot \sqrt{L_p \cdot L_s}$.
Sounds like you've got a pretty good grasp of that.

-- Bill, AB1AV

Date: Mon, 10 Mar 2003 12:33:55 -0600

From: <nkennedy@tcainternet.com>

To: k6whp@verizon.net,

"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [147344] Re: Mutual Inductance Coefficient and Toroid Impenace

Message-ID: <20030310183355.PPEM17738.fe1@localhost>

MIME-Version: 1.0

Content-Type: text/plain; charset=ISO8859_1

Content-Transfer-Encoding: 7bit

Fun question(s)!

>

> (1) The turns ratio (P:S) is 1:11 so presumably he wants to match 50 ohms to the square of (50x11)? Huh? 300 Kiloohms?

No--more like 6 k-ohms. Just the 11 is squared, not the 50. So it's 121 times 50.

>

> (2) How does one -- generally -- determine the impedance of the windings of a toroid transformer? Inductor?

Transformer & inductor done the same way. Take the AL value from the manufacturer and calculate the inductance based on the core type and size.

For example, a T50-2 with 28 turns. AL is 49 uH per 100 turns squared. Inductance is 28 squared divided by 100 squared times 49, or 3.84 uH. You said impedance (reactance), so take that number times 2 times PI times frequency for reactance.

Note that AL for iron core toroids is typically given as uH per 100 turns squared, but for ferrites, it's given as mH per 1000 turns squared.

So for ferrites $L \text{ in mH} = AL * (\text{turns}^2) / 1,000,000$

and for iron powder, $L \text{ in uH} = AL * (\text{turns}^2) / 10,000$

>

> (3) Mutual inductance is defined (from one of my references)

> as the square root of the primary inductance times the

> secondary inductance. Is this pretty close to gospel?

Yeah, when the coupling coefficient (k) is near one. With toroids, we often assume that's the case. But I was noticing in the new EMRFD, there's a method for measuring & calculating k that I want to try.

k does run close to 1 for ferrite toroids, but can be a lot lower with iron powder. That's because of the much lower permeability of iron powder. The higher mu makes the flux want to stay in the core and not sneak out and take a shortcut. (Flux that does that lowers k.)

BTW, that method was credited to an issue of QRP Quarterly.

I want to try it with separate windings Vs. windings wound over each other to see how k varies.

>
 > My reason for asking #3 is that Micro Cap derives
 > transformers by having you supply the primary inductance,
 > secondary inductance, and "k" or mutual inductance
 > coefficient. The last parameter is defined as:
 >
 >
$$k = \frac{M}{\sqrt{L_p * L_s}}$$

 >
 > Where M is the mutual inductance coefficient. If that is
 > so, then it appears that the k will always be 1 since the
 > reference definition of mutual inductance is the same as the
 > expression in the denominator of the equation above..

Yes, your observation is correct, given the assumption you described earlier. But real-world k might be a lot smaller, and it might be worth your while to have a more accurate estimate if the core is of lower permeability.

Getting back to "how do you find the impedance", you'd do well to automate these calculations with a spreadsheet, programmable calculator, or whatever. Also, there are stand alone PC calculators for this available. I think there's one on DIZ's site.

Finally, those calcs are kinda "ballpark". OK for chokes & transformers, but for tuned circuits, measurement and adjustment before soldering the toroids into a tight board is a good idea. (Voice of experience.)

> for air. But I thought this would be an interesting subject

Sure is. I have no opinion on K2 Vs Argo-V. But I wouldn't turn either one of them down.

72--Nick, WA5BDU

>
 > Bill, k6whp
 >
 >
 >

Date: Mon, 10 Mar 2003 21:33:31 +0300
From: "Oleg V. Borodin" <master72@lipetsk.ru>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [147345] Data modes in NorCal-20
Message-ID: <000a01c2e733\$ca51c4e0\$b7e522c3@user.lipetsk.ru>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="koi8-r"
Content-Transfer-Encoding: 7bit

Howdy, Guys!

Does anubody tried to modify NorCal-20 trcvr for use in Data modes. I'd like to made it for RTTY, FSK, MFSK.

Also, is it possible to do Hellschriber mode?

I shall be grateful for any advices, guideline, links etc.

72! de RV3GM/QRP

Oleg V. Borodin

RU-QRP Club <http://ruqrp.narod.ru>

Date: Mon, 10 Mar 2003 08:53:41 -0500
From: Ed Lawson <k1vp@grizzly.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [147346] Re: Argo V Numbers added to RX Comparison Tables
Message-ID: <3E6C98E5.9090605@grizzly.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

>
> I don't see how simply removing the pre-amp switch should be enough
> reason
> to give the Argonaut V such punishment, from the ham world in general
> that
> is.
>

Not having used it, I cannot comment on the ArgoV and the comments I have heard from users have been positive. However, I must say that a good switchable preamp and attn goes along way to make a rig flexible, enjoyable, and sometimes useable.

I am particularly fond of how the preamp and attn work on the PatComm 500 in this regard.

Ed Lawson

K1VP

Date: Mon, 10 Mar 2003 13:57:49 -0500
From: "Stephen King" <frstephenk@stfrancishigh.org>
To: <n6wg@earthlink.net>,
 "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [147347] Re: N6WG EQP Summary
Message-ID: <001101c2e736\$f24d7d10\$3950a8c0@RM204>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

From: "Bob Tellefsen" <n6wg@earthlink.net>
> How about a Summer and Winter session?

Great Idea ... Like the old CD QSO parties!

Peace & 73
Stephen
W3SMK
K2 #2644

Date: Mon, 10 Mar 2003 12:02:20 -0700
From: "KL7FDQ, Wayne Leman" <KL7FDQ@rangeweb.net>
To: <qrp-1@lehigh.edu>
Subject: [147348] hw-8/zm-2 progress..
Message-ID: <009401c2e737\$a7a19fc0\$023d1dac@waynecomputer>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> so, all that being said.. i just need to get a qso with the hw-8!

You will get one and probably more than one, Sergio. I think I was only short one or two states from getting WAS with mine many years ago. I still have my HW8, I think, in storage somewhere in another state.

73,

Wayne

Wayne Leman

KL7FDQ QRP ARCI #4454

Busby, Montana Grid: DN65nm

<http://www.qsl.net/kl7fdq/>

>

> thanks for everyone's help!

>

>

> ---

> peace,

> sergio

Date: Mon, 10 Mar 2003 14:21:26 -0500

From: "Charles W3KC" <w3kc@starpower.net>

To: <qrp-1@lehigh.edu>

Subject: [147349] FS: DDS package

Message-ID: <000b01c2e73a\$43729f60\$1b0e2c42@w3kc>

It does not look like I'll have time to get to this project any time soon, so here's the deal:

The KG6CYN experimenter's kit, a 9850 DDS chip, and the group buy parts. I can't guarantee this stuff, but it is all unused by me and still in as-received condition. All for \$115 plus postage and insurance.

72 Charles W3KC

Date: Mon, 10 Mar 2003 14:25:56 -0500

From: "Bob Schreibmaier" <k3ph@ptd.net>

To: <qrp-1@Lehigh.EDU>

Subject: [147350] Re: A K2 Borrower Speaks

Message-ID: <000501c2e73a\$df71ece0\$6400a8c0@k3ph>

MIME-Version: 1.0

Content-Type: text/plain;
charset="Windows-1252"

Content-Transfer-Encoding: 7bit

Hi John (et al.),

I know exactly what you're talking about. I'm hopeful those two faults can be corrected in a future firmware release. However, I would like to see a couple of things that would require a hardware change.

IMHO, the K2 could REALLY use an accessory jack or two on the back, like my Icom IC-765 and IC-735 have. Something that would have a constant level audio output and a mike input (for PSK31 interfacing, as well as the sound card voice keyer). It should have band information, too, so one could easily interface it to the automatic antenna switch. This would also be the place to have the keying for FSK.

As a personal opinion, a computer interface should be standard equipment, not an option.

I have one other problem though, that I suspect will require a K3. 8^) I'm a rather large person with larger than average size hands. I put the FT-900 knob on the K2, which I like much better than the stock knob. However, my problem is that the radio is just too darn small! I often bump either the power or RF gain knobs when I'm tuning. In general, the knobs are too small and too close together for me. I need something larger.

I use my K2 and will continue to do so. The receiver is really top notch. But, frankly, I always end up going back to the IC-765. It, too, has a pretty decent receiver. It also integrates much better with my other equipment. And, I can use it in the Classic Radio Exchange. 8^)

72/73,

Bob

K3PH

```
+-----+
| Bob Schreibmaier K3PH | E-mail: k3ph@ptd.net      |
| Kresgeville, PA 18333 | http://home.ptd.net/~k3ph |
+-----+
```

Date: Mon, 10 Mar 2003 14:32:43 -0500 (EST)
From: <n2go@arrl.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [147351] Re: WTB coaxial power connectors
Message-ID: <Pine.LNX.4.33.0303101431410.26128-100000@valhalla.v>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I guess it is a 2.5mm jack :)

Switchcraft has a good one number 720

OHR has similar jacks.

Thanks for the info.

73,

Jim n2go

On Mon, 10 Mar 2003 n2go@arrl.net wrote:

>
> I am looking for about 5-10 pieces of quality single hole mounted 3.5 mm
> coaxial power sockets for use in variety of projects. I am making several
> pieces of test equipment and I want to standarize the power input. My
> Index qrp rig has a nice dc jack.If anyone knows what part number or
> manufacturer those are... I want to avoid the plastic ones
> from RS. Single hole mounts wound be easier to install.
> Anyone have a stash or source?

>

> 73,

>

> Jim n2go

>

>

>

Date: Mon, 10 Mar 2003 14:57:11 -0500
From: "Ken Newman" <N2CQ@Dandy.Net>
To: "W3BG" <W3BG@arrl.net>, "Norm Into" <normk8ni@neo.rr.com>,
"N4SO" <N4SO@Juno.com>, "List Elecraft" <Elecraft@mailman.qth.net>,
Subject: [147352] [CONTEST] NJQRP Homebrewer Sprint Announcement
Message-ID: <006d01c2e73f\$41707480\$e2e980d1@kensdell>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

NJQRP Homebrewer Sprint

March 24, 2003 0000-0400 UTC
(Sunday evening in the US)

Put down the soldering iron and get on the air with other QRP homebrewers!
The NJQRP and "QRP Homebrewer" magazine are sponsoring this fun, quick and easy

QRP sprint ... with a homebrew twist!

Includes PSK31 mode and multipliers for home-built gear.

Prizes for the winner(s) and special certificates for all.

Mission: Promote homebrewed & homemade equipment on the air together.
(Warblers too!) Anyone with ANY equipment can enter.

Sponsor: New Jersey QRP Club
(<http://www.njqrp.org/data/qrphomebrewersprint.html>)

When: The fourth Monday in March and September 0000-0400 UTC (Sunday evening in USA/Canada)

Modes: CW and PSK31. (Both modes considered separate bands)
QRP CW and PSK31 frequencies recommended on 80, 40, 20, 15 and 10 meters.

Exchange: RST - State/Province/Country - Power out

QSO Points:

- 2 Commercial Equipment
 - 3 Homebrew Xmtr or Rcvr
 - 4 Homebrew Xmtr AND Rcvr or Xcvr
 - 5 Homebrew PSK31 station
- (Kits are ok for homebrew)

Power Mult: 0-250 mW = x 15, 250 mW-1W = x10, 1-5W = x7, >5W = x1.
(The highest power used during the contest for the mult.)

Multiplier: State/Province/Country for all bands. The same station may be worked on more than one band for QSO points and SPC credit. CW and PSK31 are considered separate bands.

SCORE: Points(total for all bands)
x SPC (total for all bands)

x power multiplier.

AWARDS: Awards of current NJQRP Club kits or subscriptions to "QRP Homebrewer" will be provided based on the number of entries received. Special certificates will also be awarded.

LOGS: Entries must be received by 30 days from the contest. The log sheets and summary should be included. E-mail logs are accepted in text form. (No word processor files etc). Also paper logs are ok.

Please include your Soapbox info with your equipment and exploits.

Send logs to:

Ken Newman, N2CQ
81 Holly Drive
Woodbury, NJ 08096

or send by email to n2cq@arrl.net

Date: Mon, 10 Mar 2003 14:37:05 -0600
From: "Michael Melland" <w9wis@charter.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>, <fpqrp-l@fpqrp.com>
Subject: [147353] OT: Fritzel Antenna Source ?
Message-ID: <004801c2e744\$d05ad000\$3f20be42@computer>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Anyone know if the USA distributor of the Fritzel FD-4 and other antennas has gone belly up ? Last I knew it was a company called ESCO (Electronic Switch Company) but the links on the net have no ham stuff listed and if you call them they have no idea what you are talking about. I'm trying to find a place to order one from and have had no luck searching for a "current"

distributor except in Europe.

73

--

Michael Melland, W9WIS
Winneconne, Wisconsin USA EN54pc
qrp-l #1656 - qrparci # 9875 - iparc #252
ars #1075 - <http://webpages.charter.net/w9wis/>

Date: Mon, 10 Mar 2003 12:49:01 -0700
From: William R Colbert <w5xe@juno.com>
To: qrp-l@lehigh.edu
Subject: [147354] Fw: Re: Service manual ?
Message-ID: <20030310.124904.-446339.5.w5xe@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Subject: Re: Service manual ?

There is an on-line manual for the FT7B at
<http://www.aa1do.com/hammanuals.htm>

and for some modifications, look at:

<http://www.mods.dk/index.htm>

under the Yaesu manual index,

hope that helps.

73

Ray

"Politicians are like nappies. Both should be
changed regularly -- and for the same reason"
"Scotsman - Scotsman's Diary 12/97"
Ray Colbert, W5XE, OOTC#3618, SOWP#1064M
ARCI-5784 NCT2R El Paso, (FAR WEST) TEXAS

Date: Mon, 10 Mar 2003 15:53:54 -0500
From: "E. Roswell" <eroswell@monmouth.com>
To: qrp-l@Lehigh.EDU
Subject: [147355] Re: Schematic Software
Message-ID: <3E6CFB62.C5830CA1@monmouth.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I use IrfanView for viewing and converting images, try it out:
<http://www.irfanview.com/>
73, Ed, K2MGM

End of QRP-L Digest 2855

